

3rd Civil Support Team

Weapons of Mass Destruction



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PURPOSE

To inform Federal, State and local Responders and Civil Authorities, and Military Personnel on the mission, composition and capabilities of the 3rd Weapons of Mass Destruction Civil Support Team



Outline

- •Mission
- Background/ CST Concept
- Composition

Personnel

Training

Equipment

Capabilities

Detection

Decontamination

Reach-back

Hazard Modeling

Medical Treatment

•Summary, Questions, Conclusion



The CST MISSION

and the WMD

RESPONSE CONCEPT



MISSION

The WMD Civil Support Team element deploys to an area of operations to:

Assess a suspected nuclear, biological, chemical, or radiological event in support of the local incident commander (IC)

Advise civilian responders regarding appropriate actions

Assist requests for assistance to expedite arrival of additional state and federal assets to help save lives, prevent human suffering, and mitigate reduction of property damage



WMD Civil Support Team History

FY 1998: 10 original CSTs Established ('96 Nunn-Lugar-Domenici and PDD 39)

FY 2000: 17 Additional CSTs Established

FY 2001: 5 additional CSTs Selected

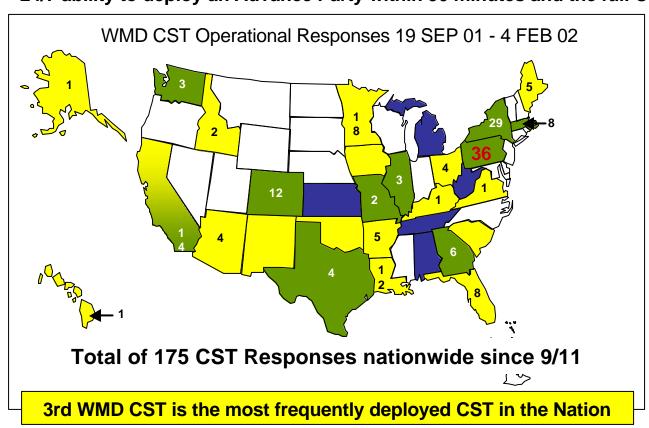
Today: 32 Civil Support Teams are stationed in 31 States (CA has 2 CSTs)
24 Civil Support Teams are now SECDEF certified to perform their mission
3 CSTs will be certified in next 3 months, 5 additional CSTs certified in early FY 03

FY 2002: Bill to establish 1 CST per State/ Territory (HR 3154) 93% of U.S. Population is within 250 Miles of a CST

Mission, Organization and Deployments

On order the 3rd WMD Civil Support Team deploy to support civil authorities at a domestic Chemical, Biological, Radiological incident site. The unit provides support by identifying CBR agents, **Assessing** the current and projected consequences, **Advising** on response measures, and **Assist** with appropriate requests for additional support to help save lives, prevent human suffering and mitigate great property damage.

24/7 ability to deploy an Advance Party within 90 minutes and the full CST capabilities within 3 hours



CSTs are:

Federally Funded, Trained and Certified

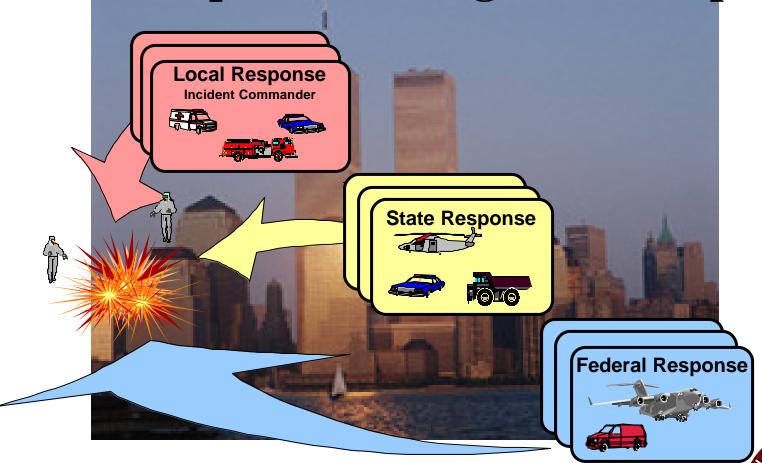
State Controlled under the Command of the Governor

Composition:

22 Full Time Personnel

Army and Air National Guard

Consequence Management Response



- Full response requires local, state, and federal assets
- State response includes National Guard
- Military support requires Total Force involvement

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COMPOSITION

of the WMD CST

Personnel and Training

Personnel (1 of 2)



Operations Team

Survey Team

Communication Team

Medical Team

22 Personnel15 Military Specialties

Administration and Logistics Team



3rd Civil Support Team
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Personnel (2 of 2)

Command Team

Unit Commander (O-5\LTC)

Deputy- Commander (O-4\MAJ)

Operations Team

Operations Officer (O-3\CPT)

Senior Operations NCO (E-8\MSG)

Operations NCO\Modeler (E-7\SFC)

Assistant Operations NCO (E-6\SSG)

Medical Team

Physicians Assistant (O-4\MAJ)
Medical Operations Officer (O-3\CPT)
Nuclear Medical Science Officer (O-3\CPT)
Medical NCO (E-7\SFC)

Communications Team

Communications Team Chief (E-7\SFC)
Information Systems Operator (E-6\SSG)

Survey Team

Survey Team Leader (O-3\CPT)
Survey Team NCO (E-7\SFC)

- 2 Reconnaissance NCOs (E-6\SSG)
- 4 Assistant Reconnaissance NCOs (E-5\SGT)

Admin\Log Team

Logistics Team Chief (E-7\SFC) Administrative NCO (E-5\SGT)



CST Training Training (1 of 2)

- Over 1,800 hours of WMD-related training in 18 months
- Trained by FEMA, NFA, EPA, DOD, FBI, DOE, and US Army Chemical School
- HAZMAT certification (over 400 hrs HAZMAT training)
- Radiological and Nuclear incident response training
- Terrorism and Weapons of Mass Destruction
- Emergency Response and Consequence Management
- National Registered EMT



Training (2 of 2)

In addition to WMD Training, 3rd WMD Civil Support Team (WMD) personnel have a myriad of skills, including:

- Chemical Officer and NCO's
- Medical and Nuclear Medical Officers
- Explosive Ordinance Disposal (EOD) expert
- Communications and Computer specialists
- Medical Professionals (PA & Respiratory Therapist)
- Firefighters, EMT's and Paramedics
- Military Police, Military Intelligence
- College Professors / Graduate Degrees (Ph.D./ MA)
- Military Support to Civil Authorities



COMPOSITION

of the WMD CST

Equipment and Capabilities

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Equipment: Radiological and Biological Detection Equipment

Biological Detection

- Bioassay Tickets
- Fluorescent Microscopy

Radiological Detection

- •AN PDR 77 RADIAC Set Detects Alpha, Beta, Gamma, X-Ray
- AN VDR2 RADIAC
 Detects Beta and Gamma
- Gamma Spectrometer Detects radiation level and identifies specific isotope



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Equipment: Chemical Detection Equipment

Chemical Detection

•INFICON HAPSITE (GC/MS) Identifies1,000s of chemical substances

•DRAEGER COLORMETRIC TUBES

- MULTIRAE Photo Ionization Detector (PID) Detects VOC, O2, H2S, CO
- APD 2000/ ACADA/ICAM Detect Nerve & Blister Agents
- M256 Kit
- M8 Paper







Equipment: Personal Protective Equipment

- Military Issue CPOG
- Kappler Level A & B Protective suits
- Chemical Resistant Undergarments
- Flash Suit Overgarments
- Dragger SCBA
- M40 Mask with PAPR
- UDR 13
- Thermoluminescent Detectors (TLDs)



Equipment Unified Command Suite (UCS)

- GMC 6500 Low Profile Chassis
- C-130, C-141, C-5, C1-17 Transportable
- 15 KW onboard generator
- Communications Capabilities
 - Military HF/VHF, AM/FM Transceivers
 - HF
 - VHF/UHF Base Station With Repeaters
 - Land Mobile Transceivers
 - INMARSAT B (UHF Voice/Data Satcom)
 - Commercial Ku Band Satcom
 - STE Secure Telephone
 - PC Workstations
 - Routers (Secure & Non-Secure)
 - Printer
 - Radio Remote Units
- Set-Up and Maintained by 2 Personnel
- Fully Operational Within 1.5 Hours of Arrival









Cold Zone











ADP Terminals

Audio Distribution

Phone Terminals/Fax

Video Terminal



Fire **EMT** Police

Hospital

Military Security







Incident JOC National Guard JTF-CS / DOMS **State EOC**

FBI

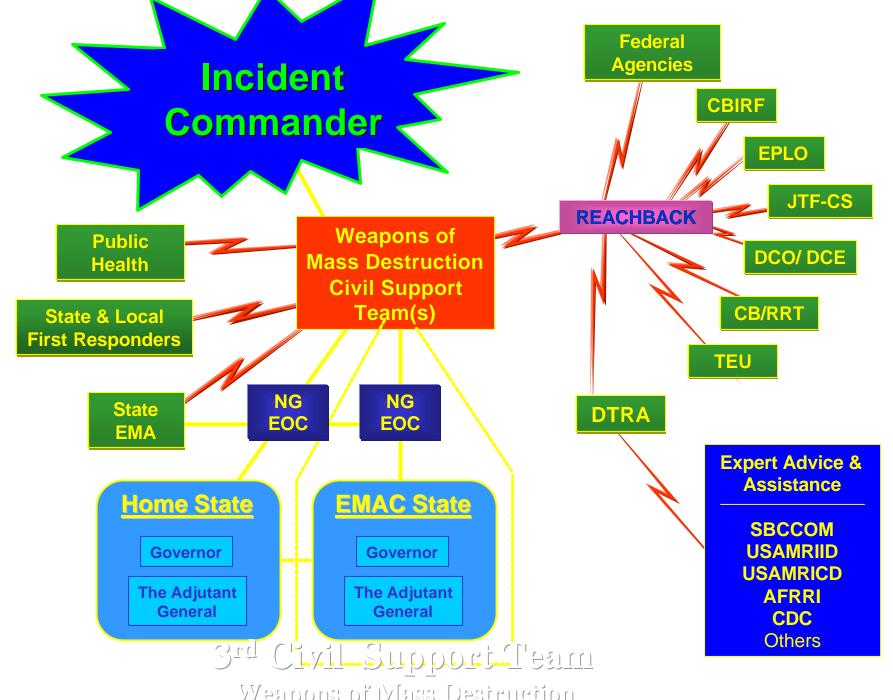
FEMA



Data Video

Voice





Weapons of Wass Destruction

Equipment:

Mobile Analytical Laboratory System (MALS)

- HAPSITE system capable of detecting thousands of volatile organic chemicals with Headspace Sampler for liquid samples.
- Portable Gamma Spectrometer with Computer based Spectrum analysis system

• Digital Photographic Microscope linked to the Reach-back

system

- Communications Linked to UCS
- Sample Analysis Prep-Shelter
- Level III Glovebox

Staffed by 2 Personnel

Operational 1 Hour from arrival

3rd Civil Support Team

Mobile Analytical Lab System (MALS)



Equipment

Medical Surveillance and Emergency Treatment System

- Contaminated Patient Medical Treatment & Decon Sets
- Advanced & Basic Medical Treatment Aid Bags
- Digital Heat Stress Monitoring System



- Automated Reference Library (Nuclear, Biological, Chemical, and Radiological Information)
- Computer System



Emergency Medical Patient Decontamination





Operational Support Equipment Decontamination Equipment

- •Unit Decontamination System
- Automated Reference Library
- Video and Still Digital Cameras





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Operational Support Equipment Decontamination Equipment







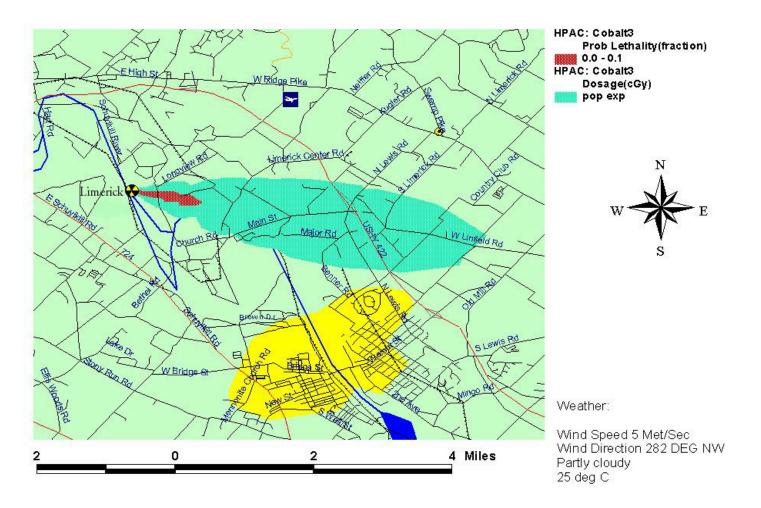




Operational Support Equipment

Hazard Plume Modeling

Limerick Power Generation Station

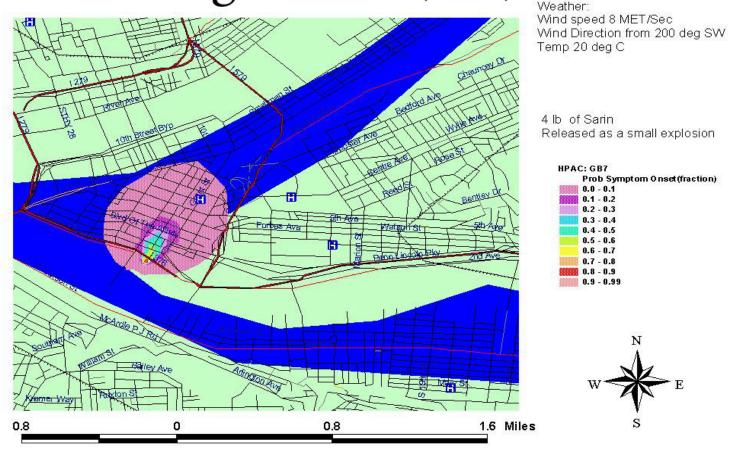




Operational Support Equipment

Hazard Plume Modeling

Pittsburgh sarin (GB)

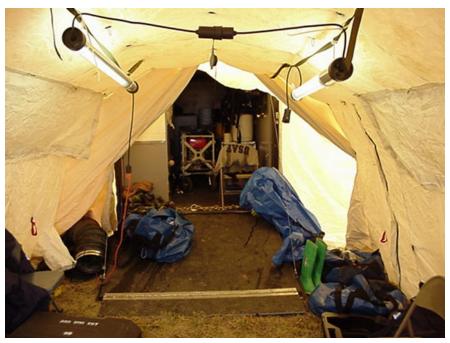




Operational Support Equipment

- Tactical Operations Center
- Survey Staging and Rehabilitation Area







3rd WMD CST PLAN FOR RESPONSE

ASSEMBLY

DEPLOYMENT TIME GOALS:

ADVON (5+ Personnel) is ready to deploy in 1.5 to 2 hours

This gives the unit partial capability at minimal manning

Main Body (11-15 Personnel) is ready to deploy in 3 to 4 hours This gives the unit full capability at less than full manning

Trail Element of unit (2-6 Personnel) deploys in <u>over 3 to 4</u> hours This gives the unit full capability at full manning

11 Person Plan for Response

- On-call plan centers on division of the 22 person CST into two 11 person response elements with identical capabilities
- Each 11 Person response element rotates between "on call" and "standby" status
- Alternate Work Schedule days off while on Standby
- Team is not normally expected to execute a full response with 11 personnel this is a management tool that ensures all core competencies are available for response

A MODEL of Response for the WMD CST



NOTIFICATION

- External: State NG EOC receives and passes notification of a potential WMD Event
- Internal: Commander receives independent notification of a potential WMD Event and passes this information to the State NG EOC



CST EMPLOYMENT CRITERIA

FIRST TEST: Is the incident potentially terroristic?

- Determination that an event is definitely terrorism will be made, after investigation, by the FBI
- There is no requirement that the incident be confirmed as terrorism prior to deployment of the CST
- WMD CST can be used as one tool to rule out, as well as to confirm, terrorism



CST EMPLOYMENT CRITERIA

SECOND TEST: Does the incident appear to involve the possible use of a weapon of mass destruction?

- WMD defined here as a chemical, biological, radiological, nuclear or high-yield explosive (CBRNE)
- Does not have to actually cause mass destruction, issue is potential capability and intended or potential use
- Things that appear only to be a "standard" emergency may, after investigation, in fact be CBRNE
- Standard chemicals can be used as a WMD device

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CST EMPLOYMENT CRITERIA

NOTE: Beyond its WMD Response Mission, the WMD CST could be used by the Governor, within its capabilities, as a tool for consequence management event that is outside of the definition of WMD Terrorism (Example Y2K, HAZMAT)



• Procedure

Commander or Duty Officer Initiates Recall Procedures for the Team

• Some Issues for MSCA (answers we need)

Valid Request for Assistance

Predeployment/ Release Authority

Situation Information (limited organic staff)

Incident POCs (IC/ State EOC/ DTRA)

Mode of Travel (Air/ Ground)

Uniform (Military or Alternate)

Force Protection (Weapons/ Ammo/ROE)

External Assets supporting us

(MPs, Chaplain, State Police etc..)

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ASSEMBLY

Unit Members Report to Armory

- •Individual Response Time to Armory varies (ADVON, Main Body, Trail)
- •Allowable Travel Radius for Unit Personnel varies based upon Threatcon

Unit Initiates Pre-deployment Activities:

- Sign In
- Med Monitoring
- Sensitive Item\ Equipment Draw
- Vehicle Load Out (Majority of Equipment Pre-loaded)
- Situation\ Intel. Gathering
- Mission Planning (abbreviated planning cycle -what is different?)
- Route Planning (Route, alternate route, checkpoints)
- Mission Briefing



ASSEMBLY

DEPLOYMENT TIME GOALS:

In a No Notice Response under Threatcon Normal\ Alpha

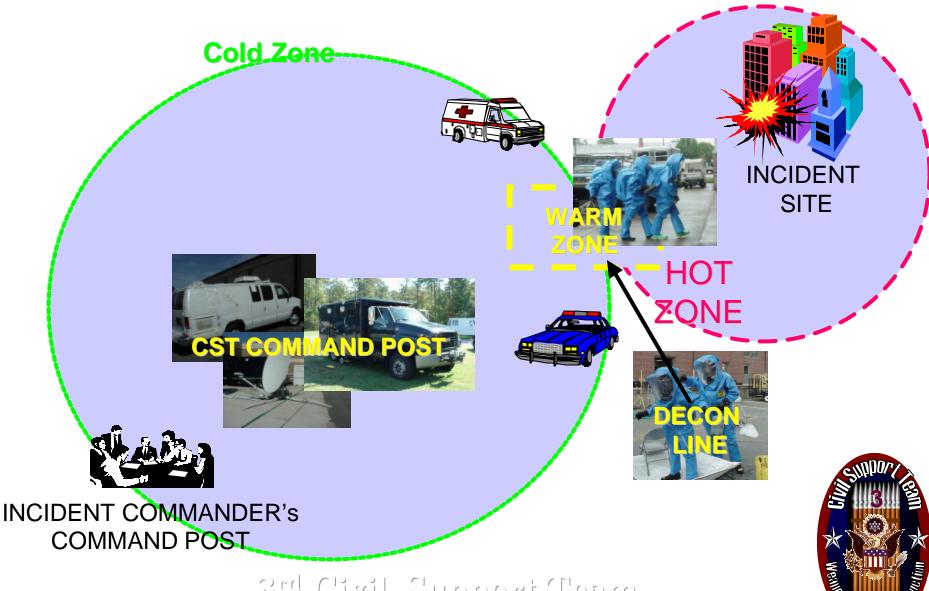
ADVON (4-7 Personnel) is ready to deploy in <u>under 2 hours</u> This gives the unit partial capability at minimal manning

Main Body (7-9 Personnel) is ready to deploy in <u>under 4 hours</u>
This gives the unit full capability at less than full manning

Trail Element of unit (5-11 Personnel) deploys in <u>6+ hours</u> At higher Threatcons response times decrease and available personnel increase

This gives the unit full capability at full manning

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Incident Site Team Layout





RESPONSE

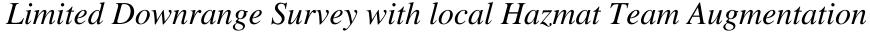
On Site Activities:

- •Site Hazard Survey
- •IC Linkup/ Briefing
- •Establish Liaison
- •ADVON Establishes Operations

Advise IC

ReachBack

Hazard Modeling





Priority of Work:

- 1. Establish Decon, Comm, TOC
- 2. Med Monitoring and Survey Dress Out
- 3. Pre-Entry Briefings and initial Entry

GOAL: 1st Entry w\in 1 hour of main body arrival







RESPONSE



Summary

You have been briefed on the mission, composition and capabilities of the

3rd Weapons of Mass Destruction Civil Support Team



Questions?



CONCLUSION

The Military and Civilian Leadership of the United States are convinced that terroristic use of weapons of mass destruction is not a case of if, but when.

When a WMD incident occurs, the 3rd WMD CST is trained, equipped and prepared to perform its mission.